

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner  
US Department of Commerce  
United States Patent and Trademark  
Office, PCT  
2011 South Clark Place Room  
CP2/5C24  
Arlington, VA 22202  
ETATS-UNIS D'AMERIQUE  
in its capacity as elected Office

Date of mailing (day/month/year) 26 April 2001 (26.04.01)	
International application No. PCT/US00/12113	Applicant's or agent's file reference 99017WO
International filing date (day/month/year) 02 May 2000 (02.05.00)	Priority date (day/month/year) 03 May 1999 (03.05.99)
Applicant KLAUS, M., Barr et al	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:  
28 November 2000 (28.11.00)

☐ in a notice effecting later election filed with the International Bureau on:  
\_\_\_\_\_

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Charlotte ENGER Telephone No.: (41-22) 338.83.38
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US00/12113

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : B29C 45/40

US CL : 425/556

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 425/351, 422, 444, 556

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,680,998 A (SHARMAN) 1 August 1972, Figure 1	10-17
Y	US 3,726,625 A (REES) 10 April 1973, Figure 1.	1-17
Y	US 4,735,080 A (STEHR) 5 April 1988, Figure 5.	1-17
Y	US 5,067,892 A (RAHN et al) 26 November 1991, Figure 1A.	10-17
Y	US 5,736,079 A (KAMIGUCHI et al) 7 April 1998, Figure 1.	1-17
A	US 27,309 A (REDSTONE et al) 28 February 1860, Figure 1.	1-17

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 12 JUNE 2000	Date of mailing of the international search report 15 AUG 2000
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer EMMANUEL S. LUK Telephone No. (703) 305-1558 DEBORAH THOMAS PARALEGAL SPECIALIST

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/12113

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 19,848 A (HARWOOD) 6 April 1858, Figure 1.	1-17
A	US 1,162,464 A (ELLIOTT) 30 November 1915, Figure 1.	1-17
A	US 1,911,019 A (GRAFENSTATT et al) 27 May 1931, Figure 2.	1-17
A	US 1,980,527 A (HEWTON) 18 August 1933, Figure 1.	1-17
A	US 2,749,591 A (DROSSEL et al) 29 January 1952, Figure 1.	1-17
A	US 3,820,376 A (KOCH et al) 28 June 1974, Figure 1.	1-17
A	US 4,212,622 A (KIKUCHI et al) 15 July 1980, Figure 3.	1
A	US 4,513,600 A (GROW et al) 30 April 1985, Figure 1.	1
A	US 5,065,636 A (RIEDISSER et al) 19 November 1991, Figure 1.	1-17
A	US 4,552,525 A (STEHR) 12 November 1985, Figure 1.	1-17
A	EP 0,657,271 B1 (KEITEL) 30 September 1994, Figure 1.	1-17

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 20 NOV 2001

WIPO PCT

Applicant's or agent's file reference 99017WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US00/12113	International filing date (day/month/year) 02 MAY 2000	Priority date (day/month/year) 03 MAY 1999
International Patent Classification (IPC) or national classification and IPC IPC(7): B29C 45/40 and US Cl.: 425/556		
Applicant MILACRON INC.		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets.  
☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).  
 These annexes consist of a total of 3 sheets.
3. This report contains indications relating to the following items:
 

I	<input checked="" type="checkbox"/>	Basis of the report
II	<input type="checkbox"/>	Priority
III	<input type="checkbox"/>	Non-establishment of report with regard to novelty, inventive step or industrial applicability
IV	<input type="checkbox"/>	Lack of unity of invention
V	<input checked="" type="checkbox"/>	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement
VI	<input type="checkbox"/>	Certain documents cited
VII	<input type="checkbox"/>	Certain defects in the international application
VIII	<input type="checkbox"/>	Certain observations on the international application

Date of submission of the demand  25 NOVEMBER 2000	Date of completion of this report  19 OCTOBER 2001
Name and mailing address of the IPEA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Facsimile No. (703) 305-3230	Authorized officer  EMMANUEL S. LUK Telephone No. (703) 305-1558 DEBOPANTHOMAS PARALEGAL SPECIALIST <i>Debt</i>

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/12113

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

☐ the international application as originally filed☒ the description:

pages (See Attached)

, as originally filed

pages , filed with the demand

pages , filed with the letter of

☒ the claims:

pages (See Attached)

, as originally filed

pages , as amended (together with any statement) under Article 19

pages , filed with the demand

pages , filed with the letter of

☒ the drawings:

pages (See Attached)

, as originally filed

pages , filed with the demand

pages , filed with the letter of

☒ the sequence listing part of the description:

pages (See Attached)

, as originally filed

pages , filed with the demand

pages , filed with the letter of

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  
These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☐ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in printed form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☒ The amendments have resulted in the cancellation of:☒ the description, pages NONE☒ the claims, Nos. 13-17☒ the drawings, sheets/fig. NONE5. ☐ This report has been drawn as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\*Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/12113

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. statement

Novelty (N)

Claims 1-12

YES

Claims NONE

NO

Inventive Step (IS)

Claims 1-12

YES

Claims NONE

NO

Industrial Applicability (IA)

Claims 1-12

YES

Claims NONE

NO

### 2. citations and explanations (Rule 70.7)

Claims 1-12 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest an ejection apparatus of the molding apparatus with a cam member connected to the rotatable output shaft of an electric motor where the cam and cam follower converts the rotation of the drive shaft to linear movement to the knock-out bar which is in turn connected to an ejector rod and ejector plate, and the ejector rod and ejector plate being slidably supported in a movable platen. The closest prior art of record only utilizes the cam for moving the ejector pins and not supported upon a movable platen.

----- NEW CITATIONS -----

US 4,52,525 A (STEHR) 12 NOVEMBER 1985, see figure 1.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US00/12113

**Supplemental Box**

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**I. BASIS OF REPORT:**

This report has been drawn on the basis of the description,  
page(s) 1-11, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the claims,  
page(s) NONE, as originally filed.  
page(s) NONE, as amended under Article 19.  
page(s) 12-14, filed with the demand.  
and additional amendments:  
Pages 12-14, filed with the letter of 12 July 2001.

This report has been drawn on the basis of the drawings,  
page(s) 1-6, as originally filed.  
page(s) NONE, filed with the demand.  
and additional amendments:  
NONE

This report has been drawn on the basis of the sequence listing part of the description:  
page(s) NONE, as originally filed.  
pages(s) NONE, filed with the demand.  
and additional amendments:  
NONE